

FIGURE 1

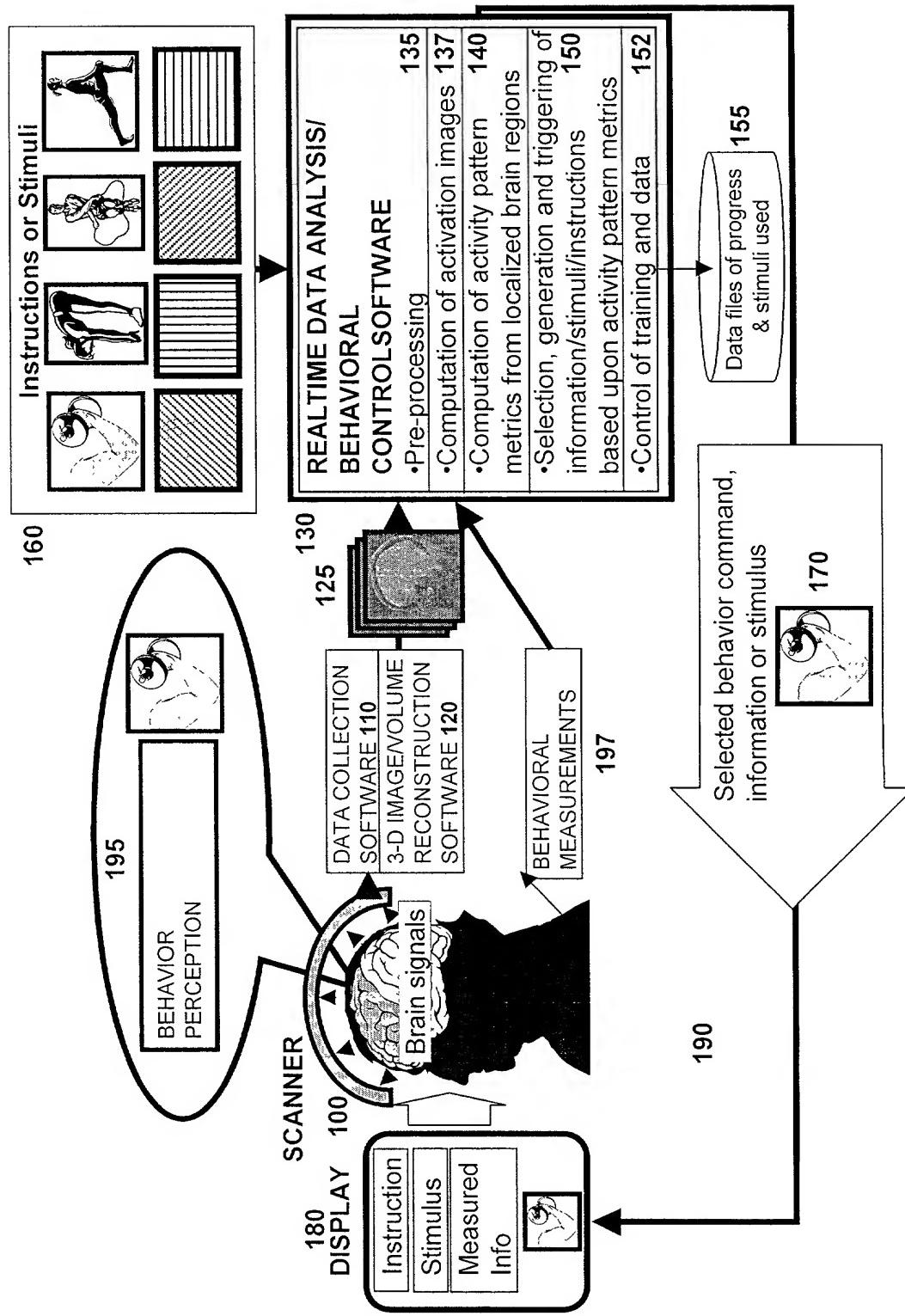


FIGURE 2

FOREBRAIN	Parietal lobe
Diencephalon	Frontal lobe
Subthalamus	Cerebral white matter
Zona incerta	Anterior commissure
Subthalamic nucleus	Internal capsule
Hypothalamus	Corpus callosum
Intermediate hypothalamic region	Basal ganglia
Hypophysis	Amygdala
Adenohypophysis	Globus pallidus
Neurohypophysis	Striatum
Thalamus (including all subdivisions)	Substantia Nigra (pars compacta and pars reticulata)
Metathalamus	Caudate nucleus
Medial geniculate body	Putamen
Lateral geniculate body	Septum
Epithalamus	Fornix
Habenula	Olfactory bulb
Pineal body	MIDBRAIN
Telencephalon	Cerebral Peduncle
Cerebral cortex including all 47 areas as described by Brodmann	Substantia nigra
Archicortex	Midbrain tegmentum
Hippocampal formation	Midbrain reticular formation
Hippocampus	Red nucleus
Dentate gyrus	Oculomotor nuclei
Subiculum	Tectum
Parahippocampal gyrus	Inferior colliculus
Cingulate gyrus	Superior colliculus
Occipital lobe	Pretectal region
Temporal lobe	HINDBRAIN
Insula	Medulla oblongata
	A more complete list is available in cited neuroanatomical texts.

FIGURE 3

Alzheimer's Disease	Chronic Pain	Lateral Medullary Syndrome	Obesity
Amyotrophic Lateral Sclerosis	Chronic Regional Pain Syndrome	Learning Disabilities	Occipital Neuralgia
Anxiety Disorders	Cns Trauma	Leigh's Disease	Overuse Syndrome
Aphasia	Cushing's Syndrome	Lewy Body Dementia	Pain - Chronic
Apraxia	Dandy-Walker Syndrome	Lissencephaly	Paresthesia
Asperger Syndrome	Locked-In Syndrome	Parkinson's Disease	Parkinson's Disease
Attention Deficit-Hyperactivity Disorder	Dementia - Multi-Infarct	Parmyotonia	Tardive Dyskinesia
Autism	Dementia With Lewy Bodies	Congenita	Tay-Sachs Disease
Autonomic Dysfunction	Depression	Parry-Romberg	Temporal Arteritis
Back Pain	Diabetic Neuropathy	Peripheral Neuropathy	Tic Douloureux
Bell's Palsy	Diffuse Sclerosis	Pervasive	Tourette Syndrome
Bipolar Disorder	Dysgraphia	Developmental Disorders	Traumatic Brain Injury
Brain and Spinal Tumors	Dyslexia	Pick's Disease	Tremor
Brain Aneurysm	Dystonias	Pinched Nerve	Trigeminal Neuralgia
Brain Injury	Encephalitis and Meningitis	Pituitary Tumors	Wallenberg's Syndrome
Carpal Tunnel Syndrome	Epilepsy	Postherpetic Neuralgia	Zellweger Syndrome
Causalgia	Friedreich's Ataxia	Repetitive Motion Disorders	
Central Pain Syndrome	Gaucher's Disease	Repetitive Stress Injuries	
Cerebral Aneurysm	Guillain-Barre Syndrome	Restless Legs Syndrome	
Cerebral Arteriosclerosis	Head Injury	Rett Syndrome	
Cerebral Palsy	Headache	Schizophrenia	
Charcot-Marie-Tooth Disorder	Herpes Zoster	Seizure Disorder	
Chiari Malformation	Huntington's Disease	Shingles	
Chorea	Hydrocephalus	Sleep Apnea	
	Landau-Kleffner Syndrome	Sleep Disorders	
		Spasticity	
		Spina Bifida	
		Niemann-Pick Disease	

FIGURE 4

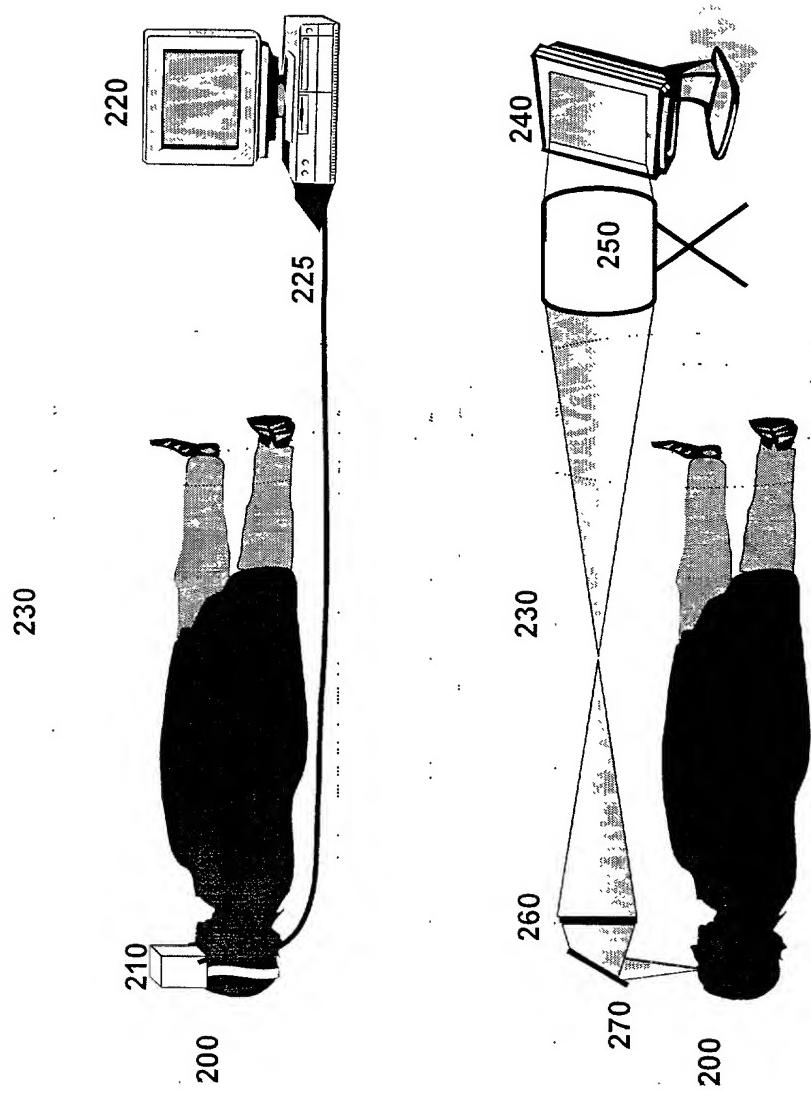


FIGURE 5

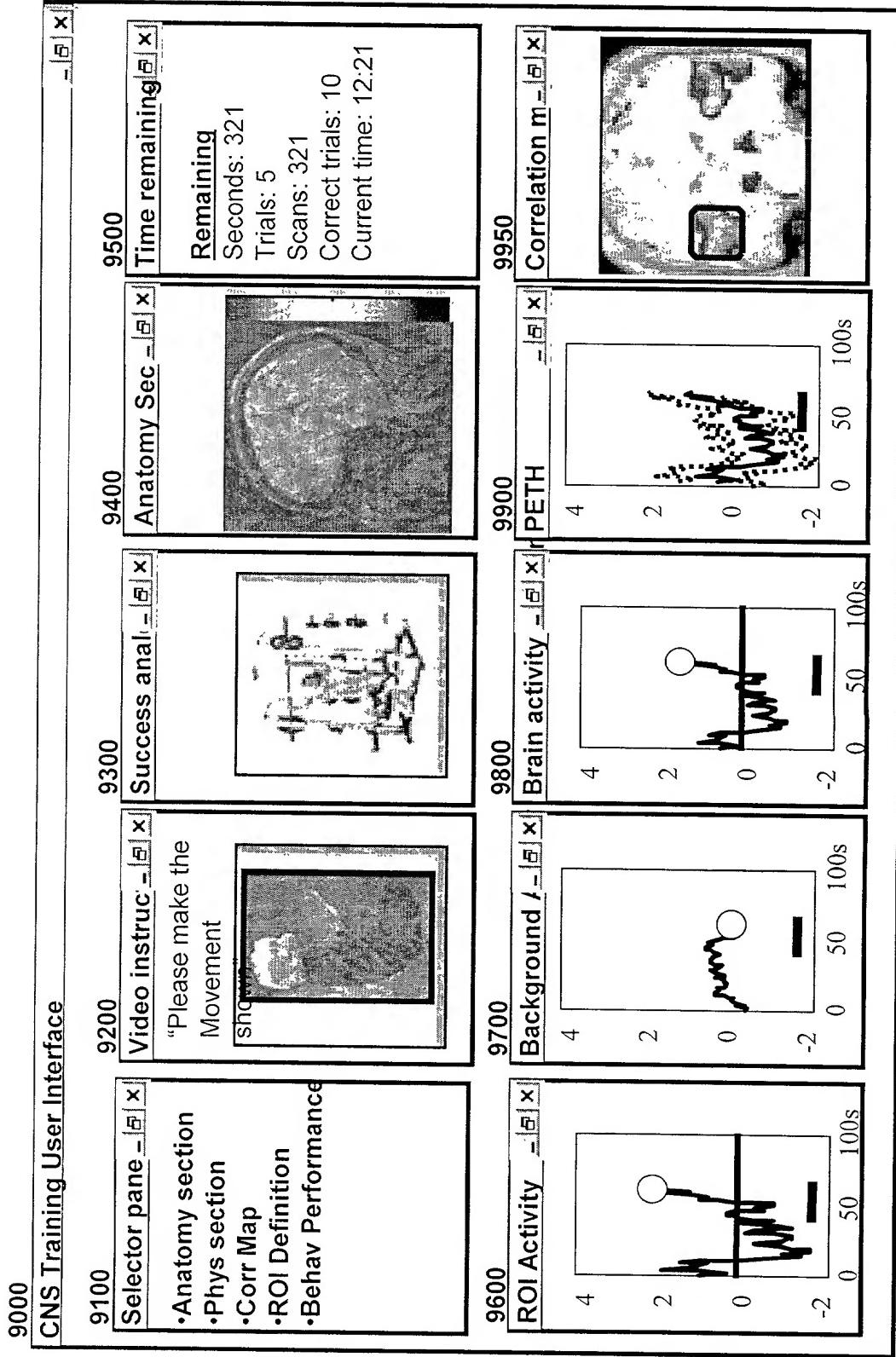


FIGURE 6

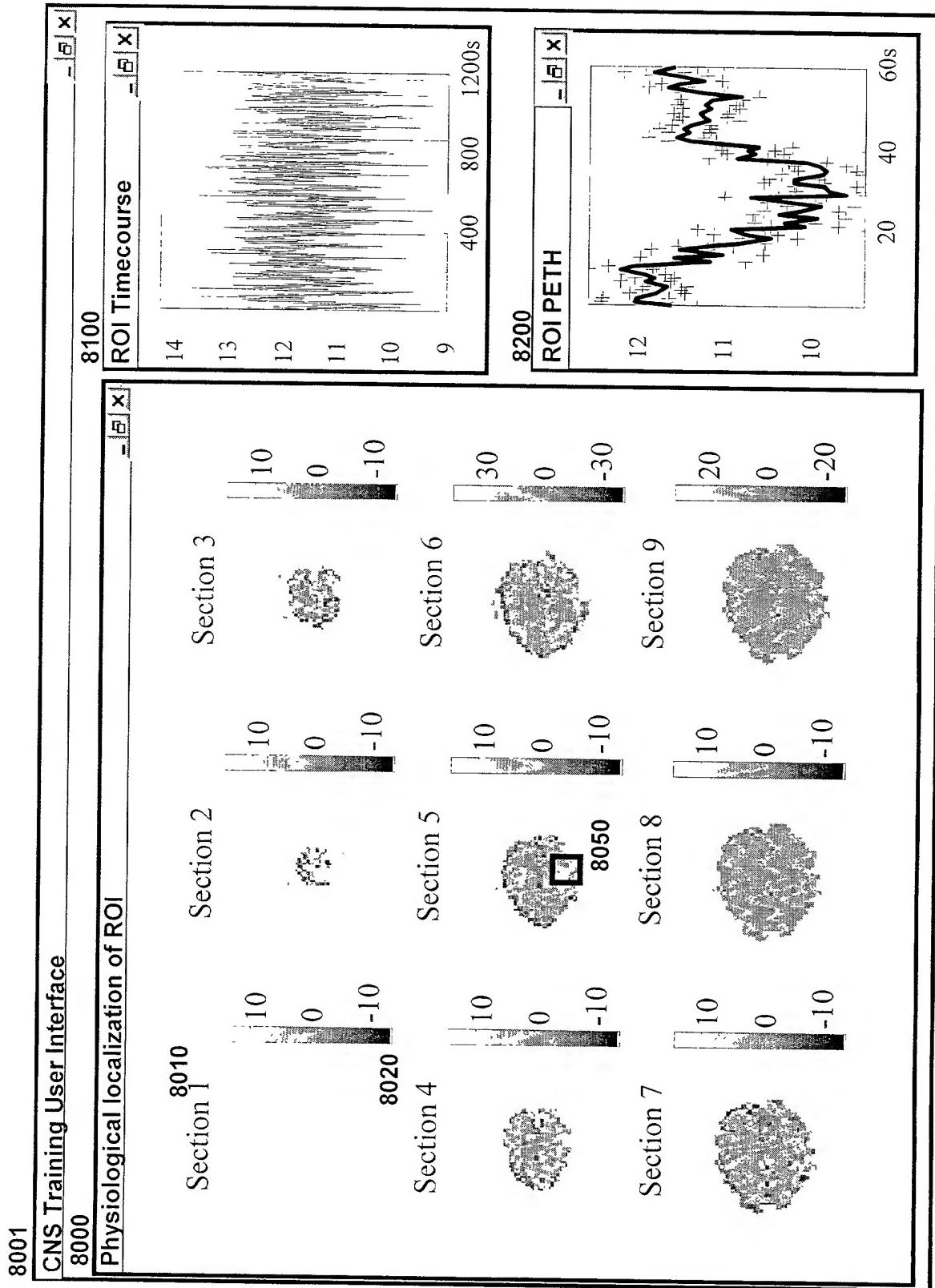


FIGURE 7

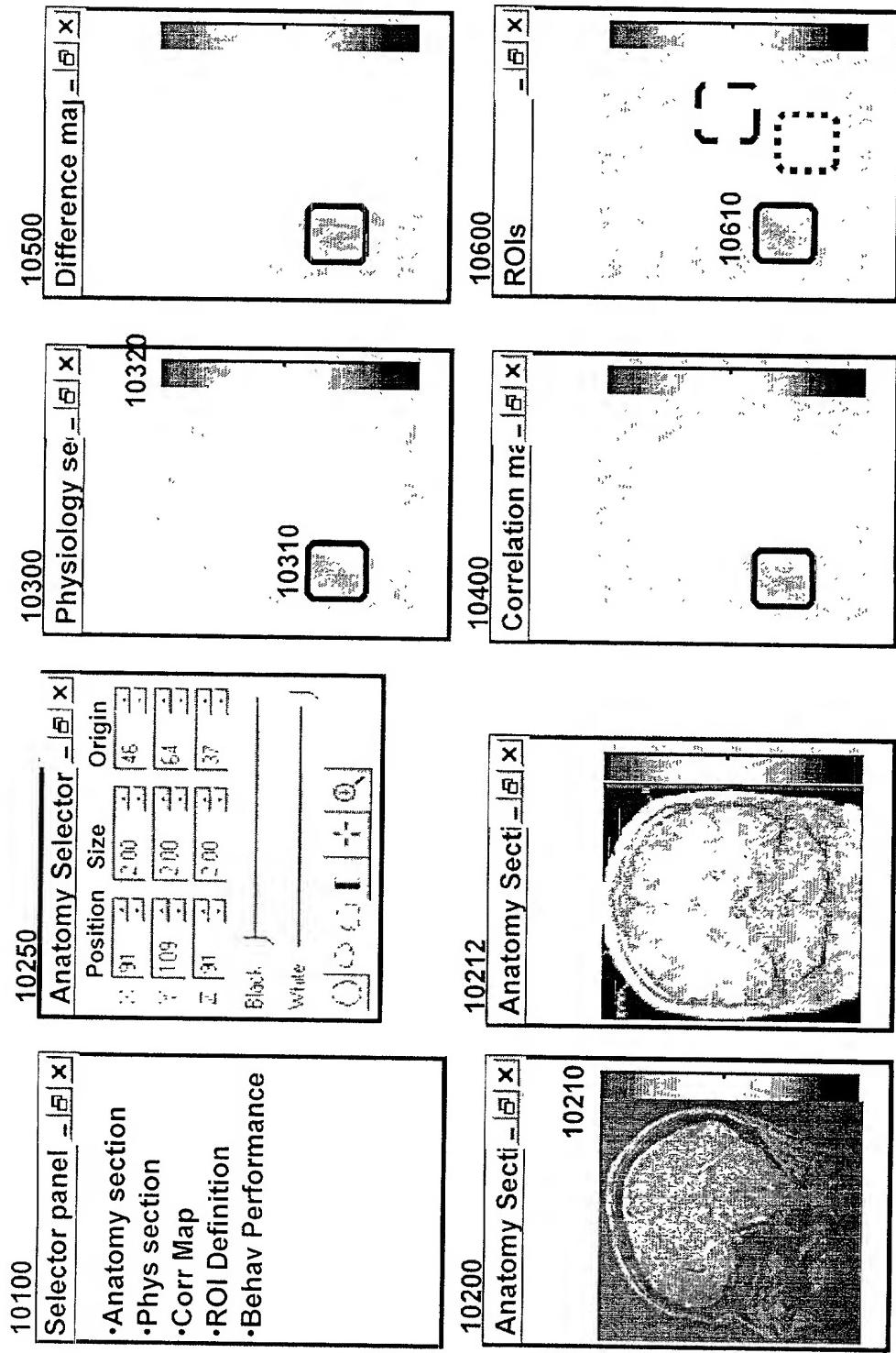


FIGURE 8

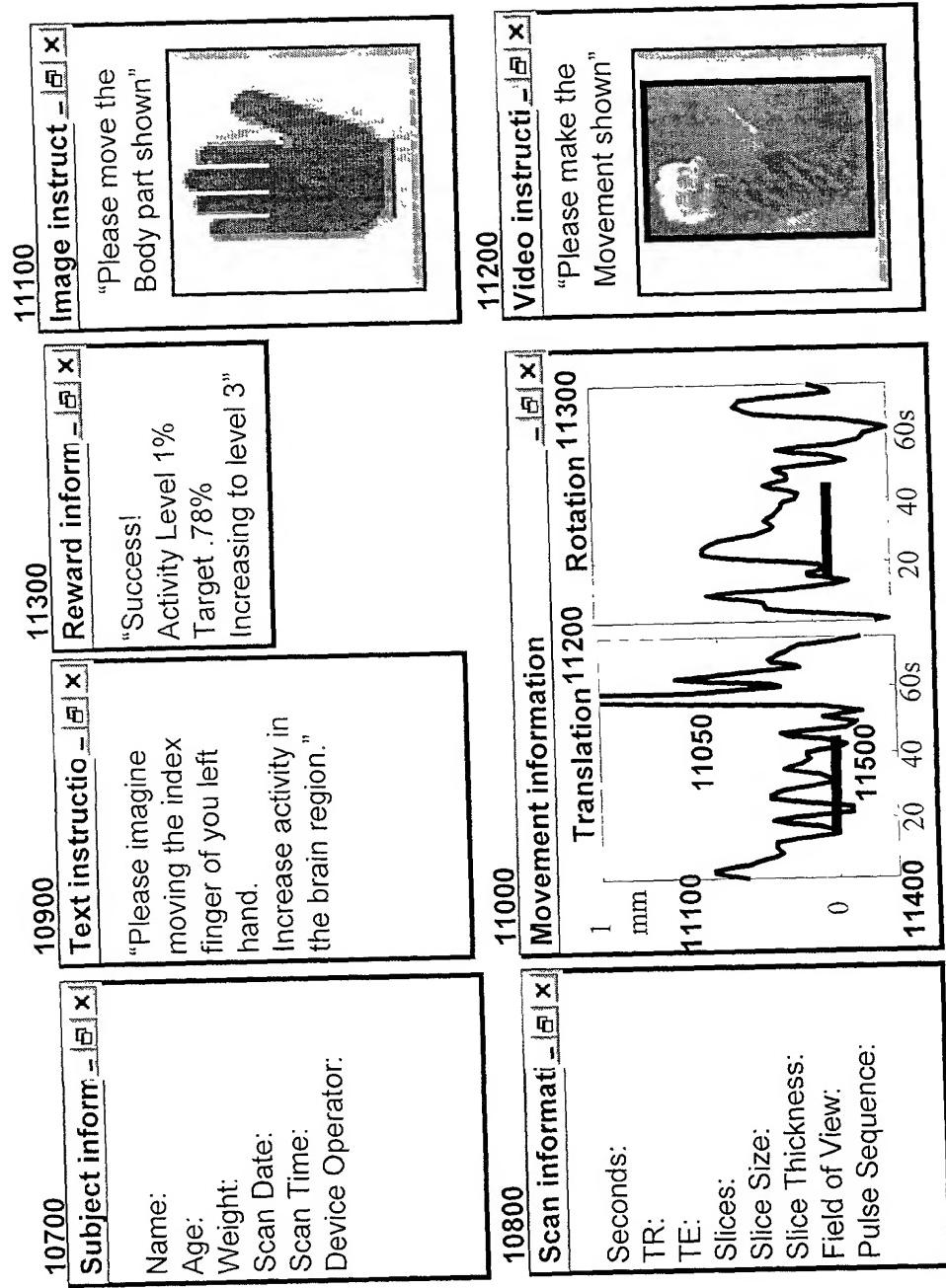


FIGURE 9

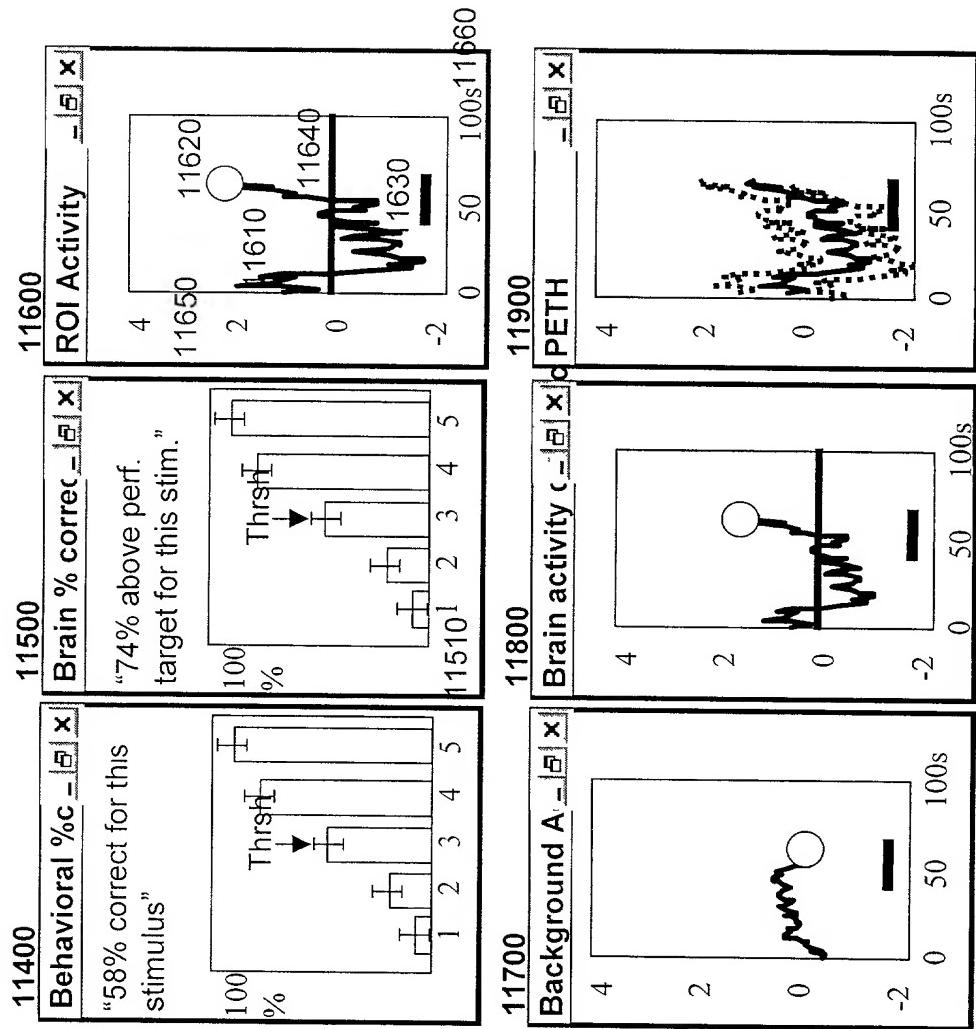


FIGURE 10

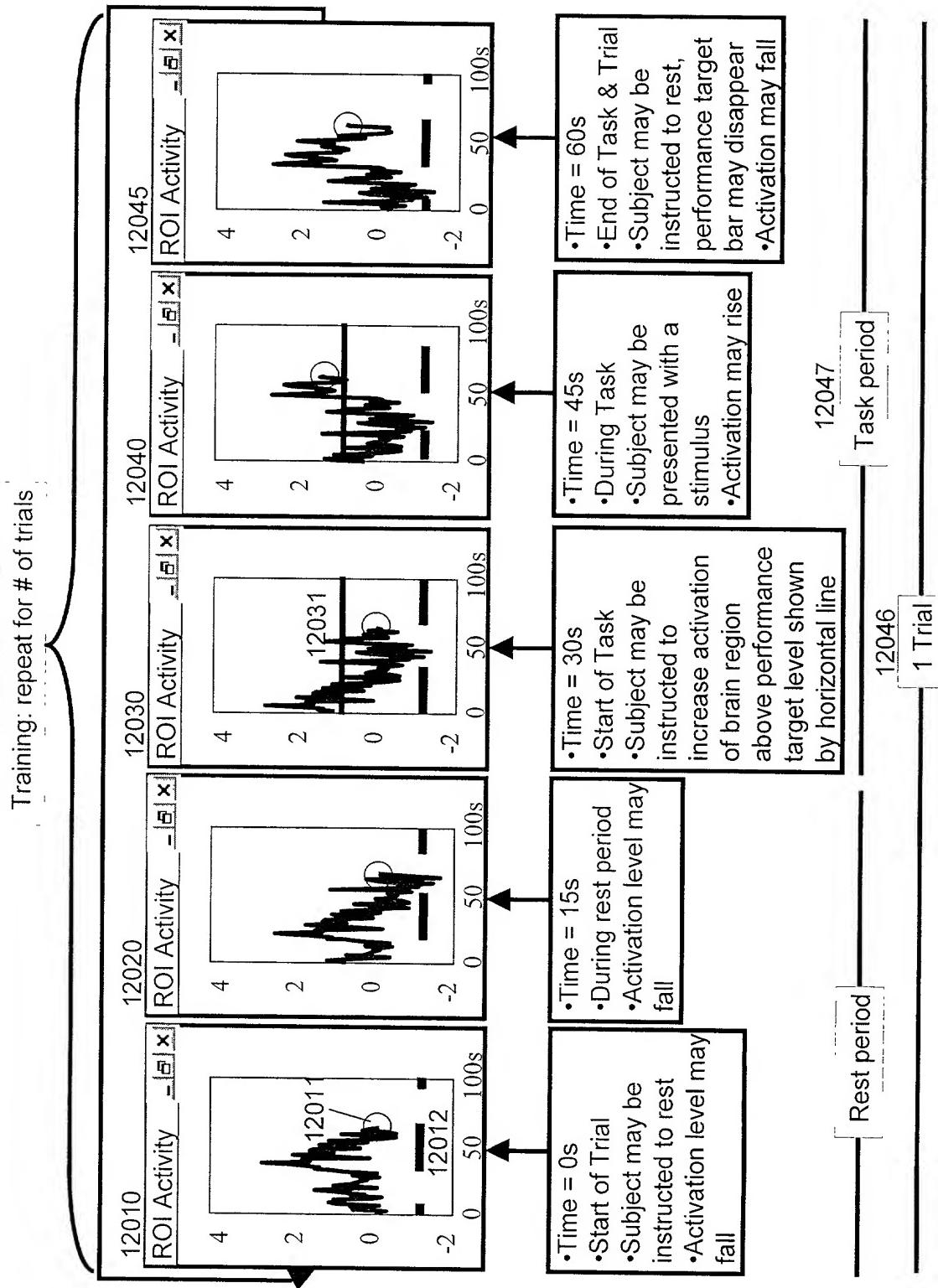


FIGURE 11

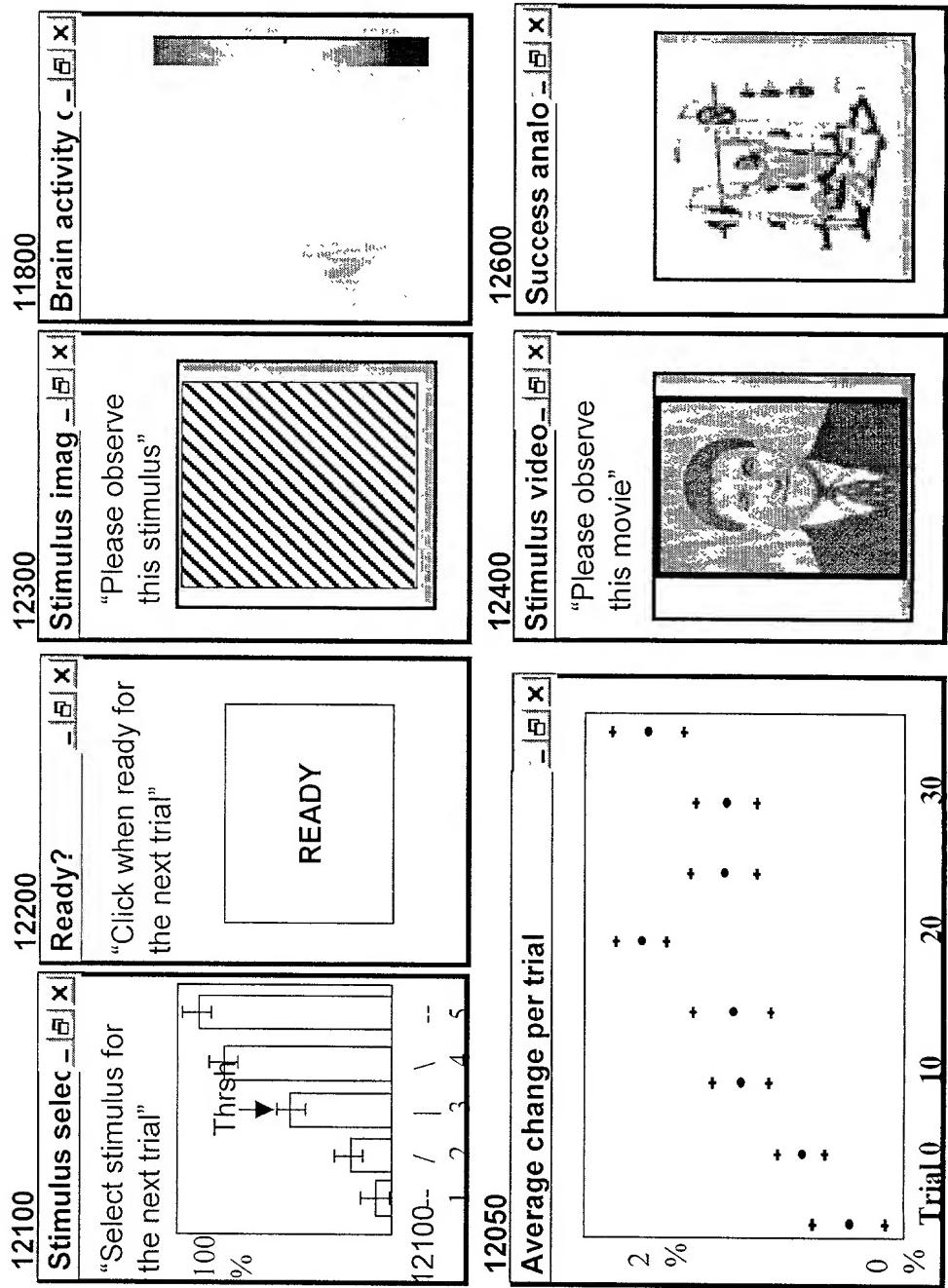
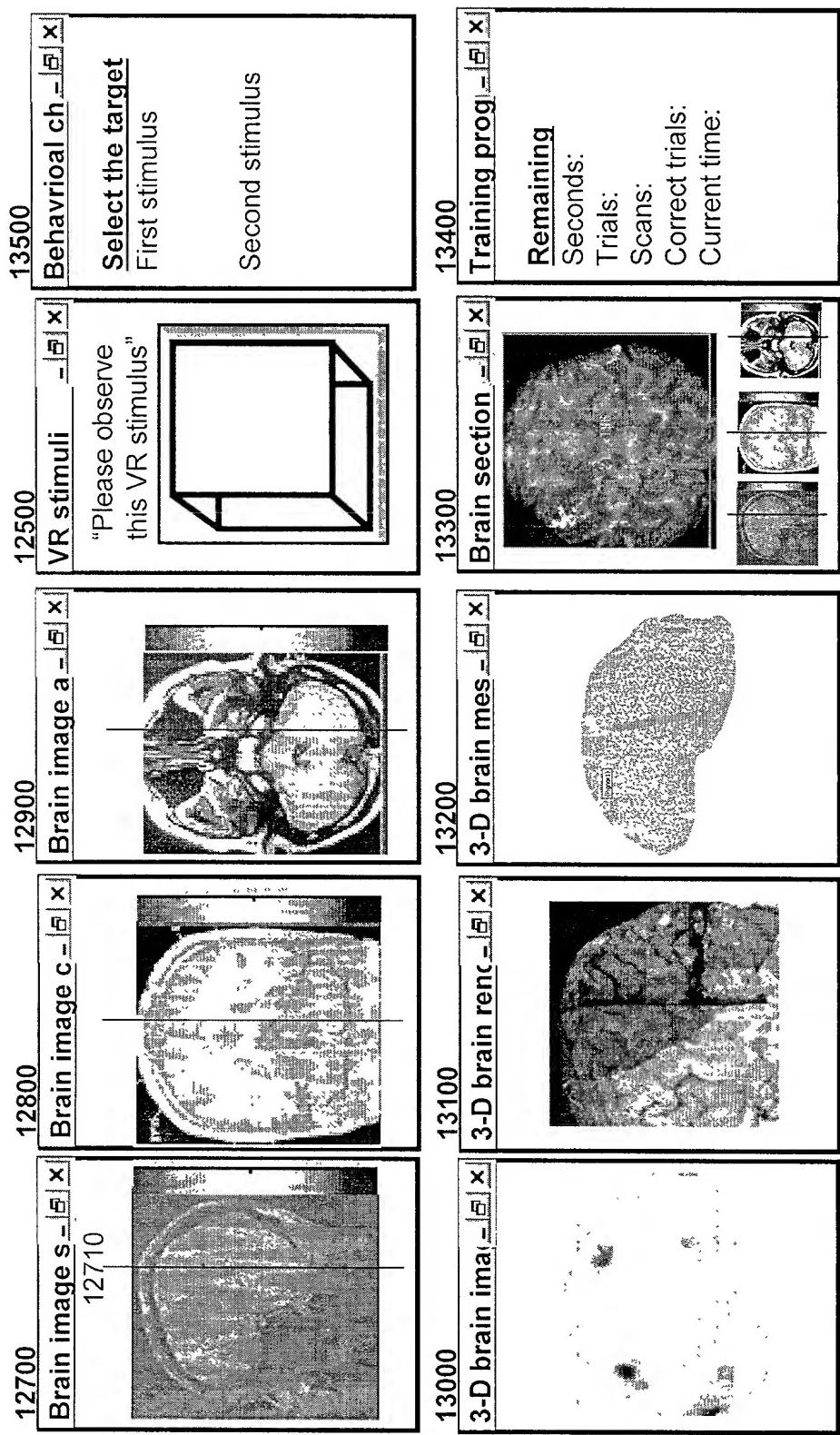


FIGURE 12



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FIGURE 13

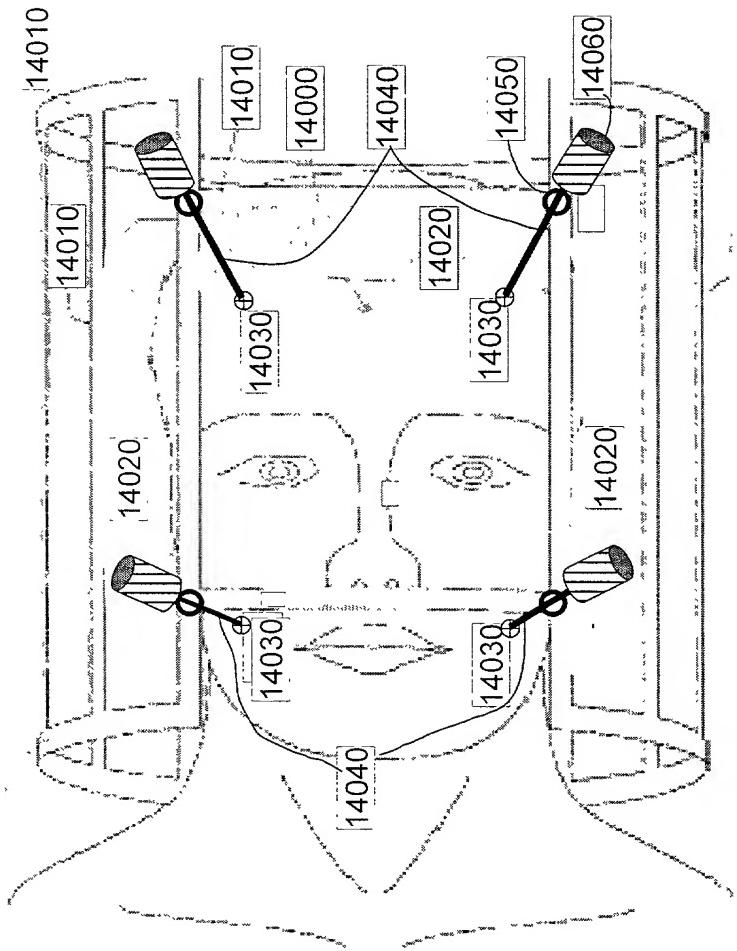


FIGURE 14

Region	Coords.	Condition	Neuro-modulator
subthalamic nucleus	X=+10 Y=-13 Z=-4	PD	-
substantia nigra	X=+10 Y=-17 Z=-8	PD, Schz	DA
thalamic nucleus VA ventro anterior	X=+10 Y=-5 Z=8	PD	-
nucleus accumbens	X=+10 Y=7 Z=-8	SA, Rew, Schz	DA
thalamic nucleus VL ventrolateral	X=+14 Y=-11 Z=8	PD	-
globus pallidus internus	X=+15 Y=-2 Z=-4	PD	-
pulvinar nucleus	X=+15 Y=-27 Z=4	ADD	-
thalamic nucleus VP	X=+17 Y=17 Z=9	Pain	-
locus coeruleus	X=+2 Y=-31 Z=-14	ADD, SA, Rew	NA
globus pallidus externus	X=+20 Y=-2 Z=-4	PD	-
amygdala	X=+22 Y=-5 Z=-12	Pain	-
medial frontal lobe	X=+3 Y=14 Z=40	Pain	-
periaqueductal gray matter	X=0 Y=-26 Z=-12	Pain	opiates 5-HT
raphe dorsalis	X=+2 Y=-30 Z=-12	Pain	Ach
nucleus basalis of Meynert	X=+4 Y=1 Z=-12	AD, learning & plasticity	-
dorsolateral pre-frontal cortex	X=+28 Y=34 Z=35	Dep	-
anterior pre-frontal cortex	X=+17 Y=64 Z=16	Dep	-
rostral ventromedial medulla	X=2 Y=-28 Z=-28	Pain	opiates 5-HT, opiate
nucleus raphe magnus	X=2 Y=-30 Z=-28	Pain	-
thalamic nucleus Vim ventrointeromedial	X=+7 Y=-12 Z=4	PD	-
Brodman's areas 4	X=+48 Y=-15 Z=40	Motor impairments	-
Brodman's areas 6	X=59 Y=-9 Z=40	Motor impairments	-

PD - Parkinson's disease; AD - Alzheimer's disease, ADD - attention & attention deficit/attention deficit/hyperactivity disorder, Dep - depression/mood/affect, SA - substance abuse & addiction, Schz - schizophrenia, Rew - reward
 DA - dopamine, 5-HT - serotonin, Ach - acetyl choline, NA - noradrenaline